

(No Model.)

A. G. SHANNON.

TYPE WRITER.

No. 248,890.

Patented Nov. 1, 1881.

Fig. 1

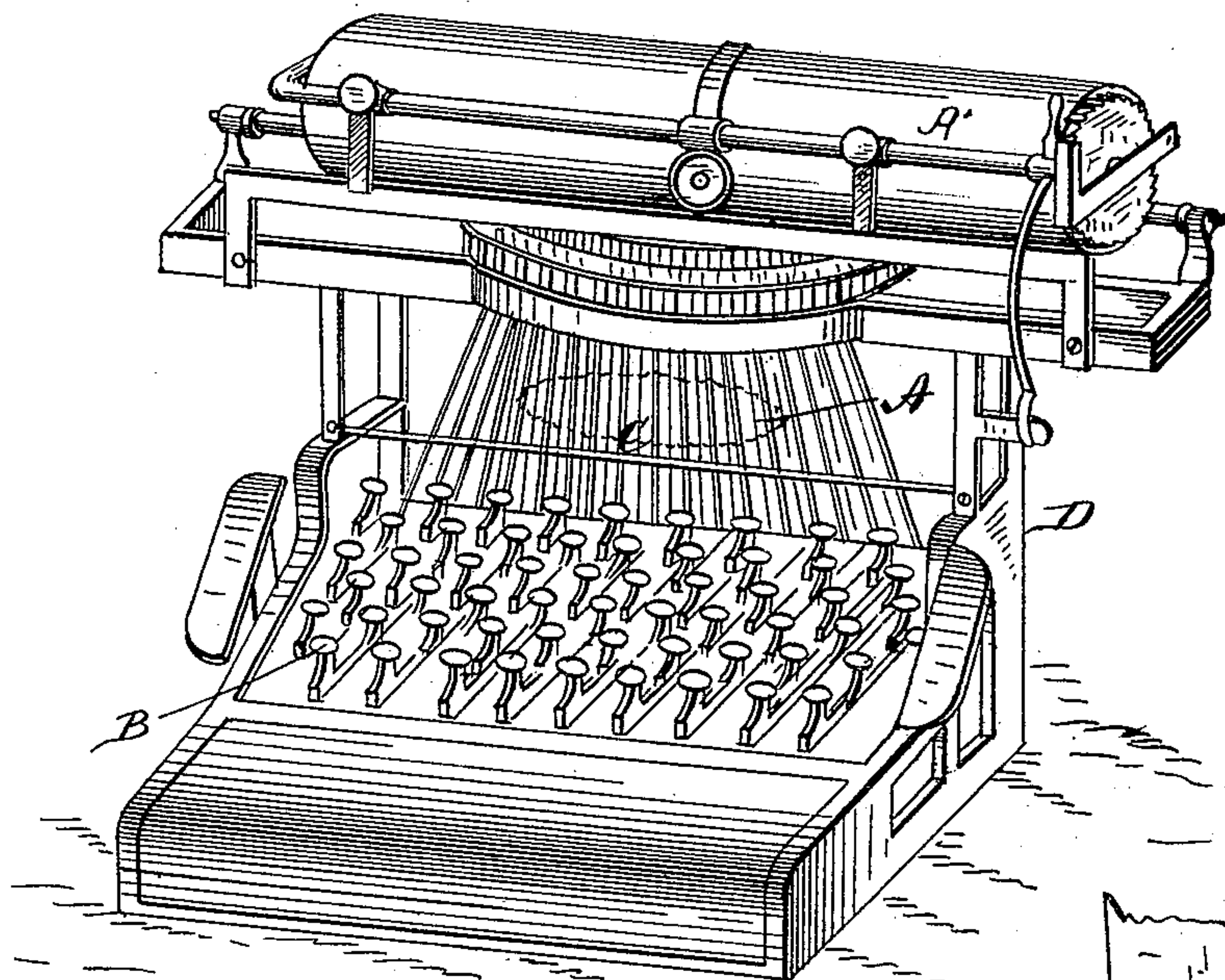


Fig. 3.

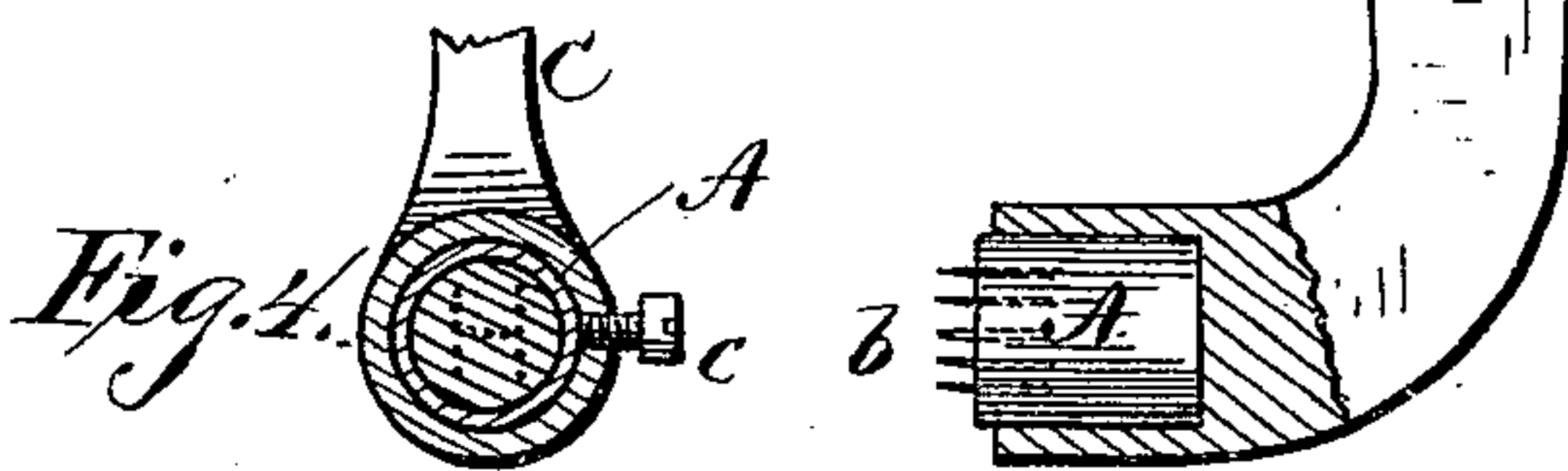
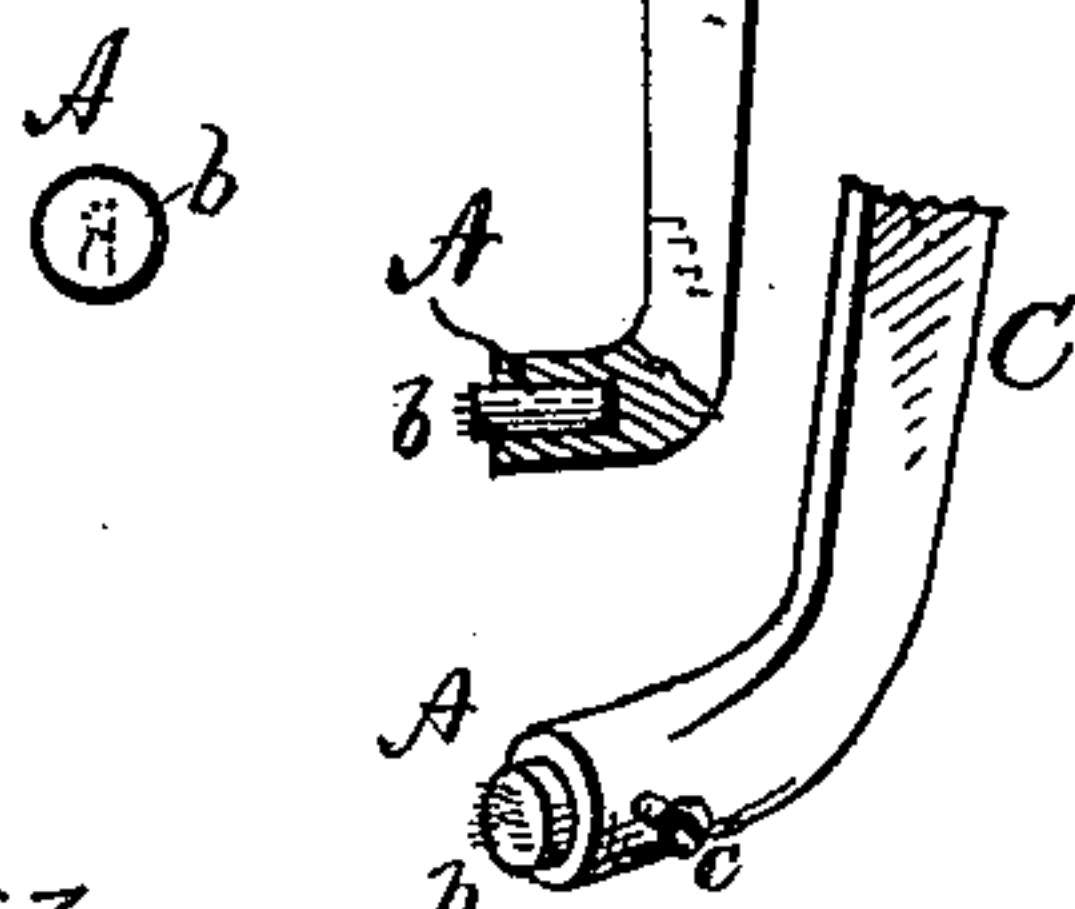


Fig. 2



Witnesses,

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UNITED STATES PATENT OFFICE.

ALBERT G. SHANNON, OF SANTA ROSA, CALIFORNIA.

TYPE-WRITER.

SPECIFICATION forming part of Letters Patent No. 248,890, dated November 1, 1881.

Application filed August 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALBERT G. SHANNON, of Santa Rosa, in the county of Sonoma and State of California, have invented certain new and useful Improvements in Type-Writers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of the machine; Fig. 2, details of letter and lever for carrying the same. Fig. 3 is an enlarged fragmentary view of an arm, showing the end holding the type, partly in section, the same illustrating the manner in which the type-casing is inserted into said arm, also disclosing, by dotted lines, the puncturing-points inserted into and projecting from the cement which is contained in the casing. Fig. 4 is an enlarged fragmentary view of the arm, showing a section through the set-screw that holds the type in the recess of the arm.

The letter A is a casing for a letter; A', the cylinder. B represents one of the keys. C is an operating-lever, carrying a letter; D, machine preferred. The letter b represents the points forming letter; c, screw for holding letter in arm or operating-lever C.

My invention relates to type-writers; and it consists of a type composed of a metallic casing, having figures, letters, or characters formed of sharp puncturing-points, of equal length, projecting from said casing. The casing is filled with cement or other suitable material when in a proper state of consistency, and the rear end of the puncturing-points inserted therein. The face of the type, which is composed of perforating-points, should project evenly outside the casing, all of which will be more fully hereinafter described, and pointed out in the claim.

The object of my invention is to perforate paper similar to the product of an electric pen. I obtain this result by employing the mechanism of an ordinary type-writer, with the ex-

ception of the inked ribbon and type. These are dispensed with. The cylinder may have the ordinary form; but it should be constructed of cork, rubber, or other suitable material, which will protect the pointed letters that strike into it while perforating the paper.

The original copy made by my improvement may be read quite as easily as if printed with ink. It produces in the paper what I wish to term a "stencil," from which, if desired, several hundred copies may be taken, as from the impressions made from punctured paper produced by the electric pen. This is attained by the use of certain elements contained in the type-writer and electric pen. It possesses advantages over the former from the fact that numerous copies may be made from the paper perforated by the letter-points, while it may be operated as easily and rapidly. It also possesses advantages over the electric pen, inasmuch as it prints its letters instead of writing them, and, further, it requires no battery.

The type used by me is composed of a shell of any desired shape, filled with wax, cement, or other matter which will hold the puncturing-points, representing figures, letters, and punctuation-marks. The type are inserted into the operating-arms, (shown in C,) and held firmly in position by screw c. The type may also be held by rivet.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A type constructed of a metallic casing filled with cement, into which are inserted sharp points to represent a character, said type being attached to a movable arm of a type-writer by means of a recess and set-screw in said arm, substantially as described, and for the purposes set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALBERT G. SHANNON.

Witnesses:

GEORGE P. NOONAN,
ROBERT A. THOMPSON.